

Objective: 3240-0301: The student will demonstrate the result of forces.

Intended Learning Outcomes:

In Male observations and measurements (uses instruments as appropriate).

In Male observations and measurements (uses instruments as appropriate).

In Male observations and measurements of the second of the seco

This active) is a great flow way to such activities of great most students (2) will construct a boar than with period and the way to teach activities of principle. Each sensor of sunderes (2) will construct a boar than will large affait the most amount of martiles possible. When the boar eventually sake, the total number of martiles in the number to write the record. He visuality cannot be decided on this total.

Againmost remarks after the contract of the c

## Materials Needed:

Square aluminum foil sheets for each student. 6" by 6" size is good.
Container for water (tub, bucket, sink, etc.)
Tub of marbles (50-100 depending on class size)

# Procedure 1. Males a boat of some type out of your foil paper. 2. Party our boat into the container of water and begin to place marbles in one at a time (See Rule # 2). 3. Place your marbles evenly throughout your boat. Make sure you balance your weight evenly.

Rules

1. You only have one attempt. You may not start over once you begin placing maribles in the boat.

2. You must wait three seconds before you can place another marble in your boat.

3. When your boat sinks, count the number of marbles in your sunken boat.

5. When you took make, come as miner on marines in you same tool.

Sadety concerns:

Sadeurs, be sure to follow all <u>mascher directions</u> and instructions for all general laboratory experiences.

Variation s

Bacteria Counting the number of matches in the number to the number to the size of the number of the

see a secumence runayer man.

Conclusion

1. In what way does the stare of the boats make a difference in the amount of marbles they hold? Please be specific.

2. In what way does the design of the boats make a difference in the amount of marbles they hold? Please be specific.

Please describe which design held the most marbles and why.

4. What would you do different next time?









Visit the <u>Utah State 8th Grade Integrated Science Core Curriculum Page</u>, Updated August 7, 2000 by: <u>Glim Westbrook</u> Science Home Page | Curriculum Home Page | Core Home Page | USOE Home Page |
Converient © by the Utah State Office of Education.